

Panasonic

3.5" Flexible Disk Drives One Inch High Series



Panasonic Industrial Co.
Memory Systems Division

Key Features

- Low Profile (only 1.0", 25.4 mm)
- Lightweight: Suitable for portable and desktop equipment as well. Only 440 grams (approximately 1 pound).
- Compatible with industry standard 5.25" floppy interface.
- High performance: access time of 3 msec.
- State of the art: Surface mount technology, newly developed LSI.
- Quiet operation.
- Low power consumption.
- High reliability: Direct drive brushless digitally controlled motor.
- Customer installable options.

Specifications

Performance

		JU-253	JU-257
CAPACITY UNFORMATTED	Per Disk	1.0 Mbyte	2.0 Mbytes 1.0 Mbytes
	Per Track	6.2 Kbytes	12.5 Kbytes 6.2 Kbytes
Transfer Rate	250 Kbits/sec	500/250 Kbits/sec	
ACCESS TIME	Track to Track	3 msec	
	Settling Time	15 msec	
	Motor Start Time	500 msec	300 msec

Functional

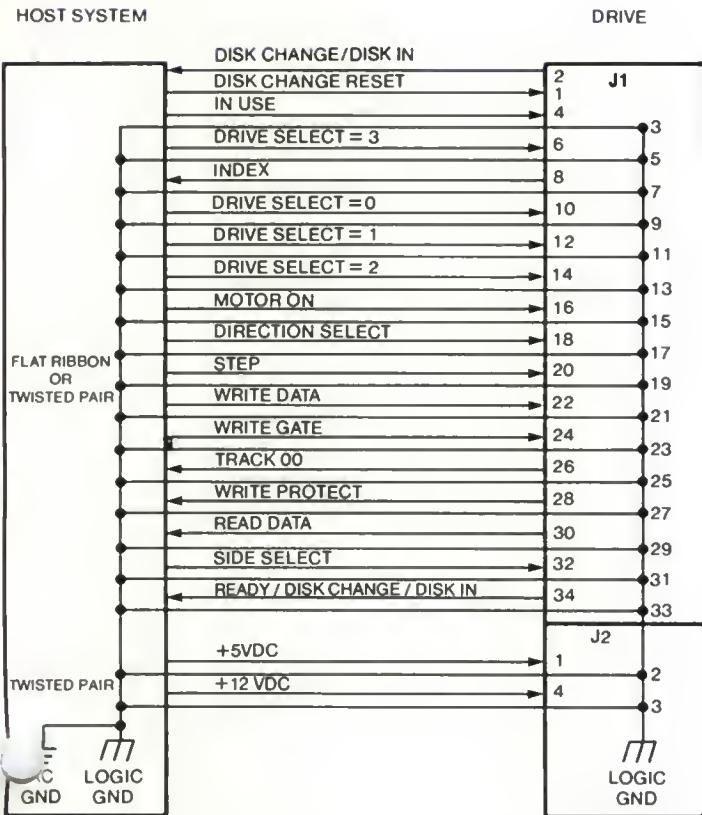
ROTATIONAL SPEED	300 RPM	300 RPM
RECORDING DENSITY	8717 BPI	17434 BPI 8717 BPI
TRACK DENSITY	135 TPI	
NUMBER OF TRACKS/SIDE	80	
NUMBER OF HEADS	2	
TEMPERATURE (Operating)	5 C to 45 C	
HUMIDITY (Operating)	20% to 80% (Non-condensing)	

Power Requirements

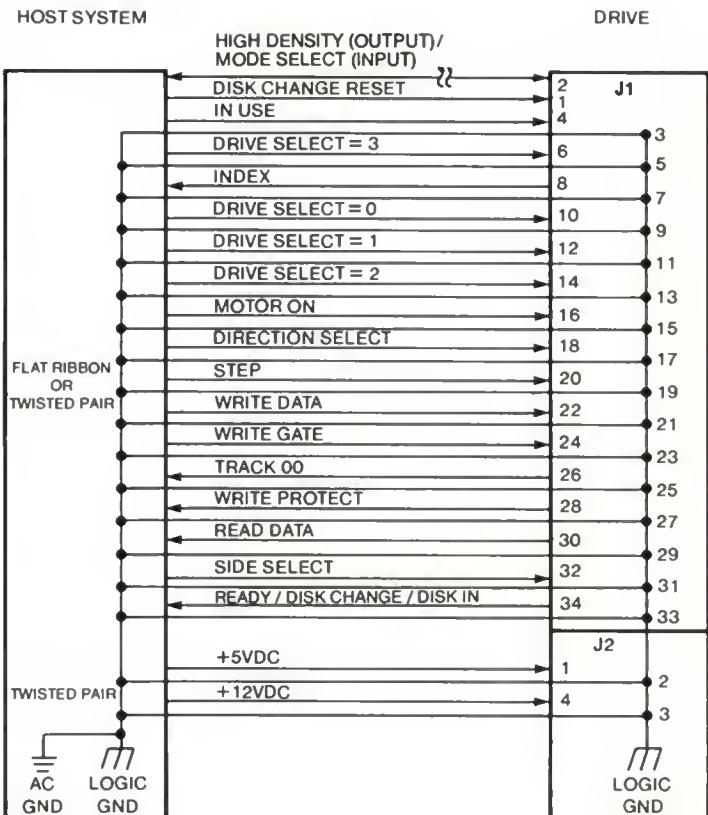
			JU-253	JU-257
Voltage			12V±10%, max ripple: 100mVp-p	
12V	Current (Operating)	Seek	0.25A (Max) / 0.21A (Typ)	0.25A (Max) / 0.21A (Typ)
		Read	0.10A (Max) / 0.08A (Typ)	0.12A (Max) / 0.10A (Typ)
		Write	0.10A (Max) / 0.08A (Typ)	0.13A (Max) / 0.11A (Typ)
	At motor start		0.22A	0.33A (Max) / 0.30A (Typ)
Voltage			5V±5%, max ripple: 50mVp-p	
5V	Current (Operating)	Seek	0.31A (Max) / 0.28A (Typ)	0.19A (Max) / 0.17A (Typ)
		Read	0.29A (Max) / 0.26A (Typ)	0.18A (Max) / 0.16A (Typ)
		Write	0.33A (Max) / 0.30A (Typ)	0.18A (Max) / 0.16A (Typ)
DC POWER REQUIREMENTS	Power Dissipation	Seek Motor/Start	4.9W (Max) / 3.9W (Typ)	5.4W (Max) / 4.5W (Typ)
		Read	2.9W (Max) / 2.3W (Typ)	2.3W (Max) / 2.0W (Typ)
		Write	3.1W (Max) / 2.6W (Typ)	2.5W (Max) / 2.1W (Typ)
		Standby	70mW (Max) / 60mW (Typ)	70mW (Max) / 50mW (Typ)

Interface Connections

JU-253

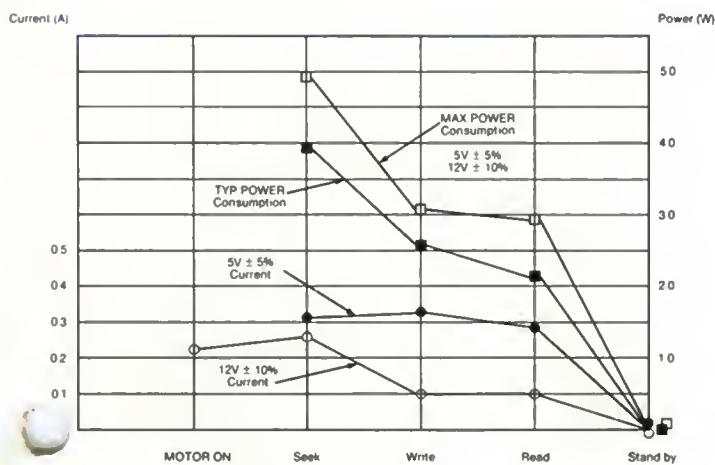


JU-257

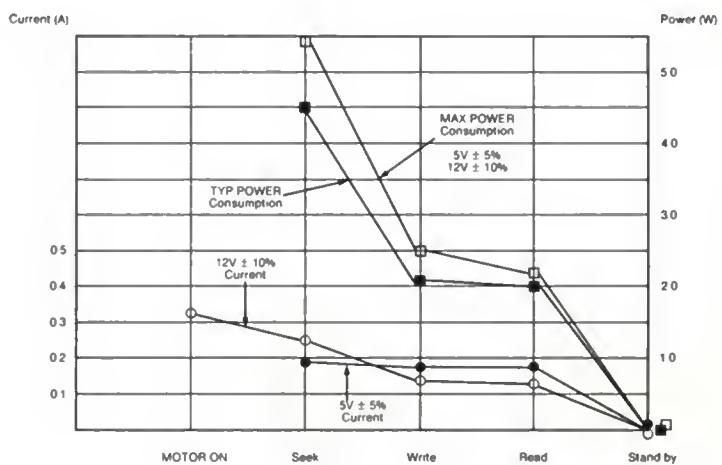


Power Consumption

JU-253



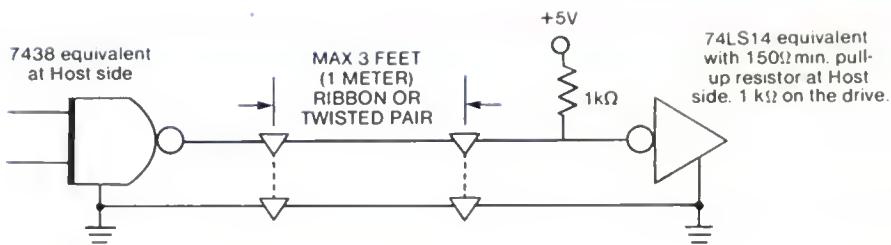
JU-257



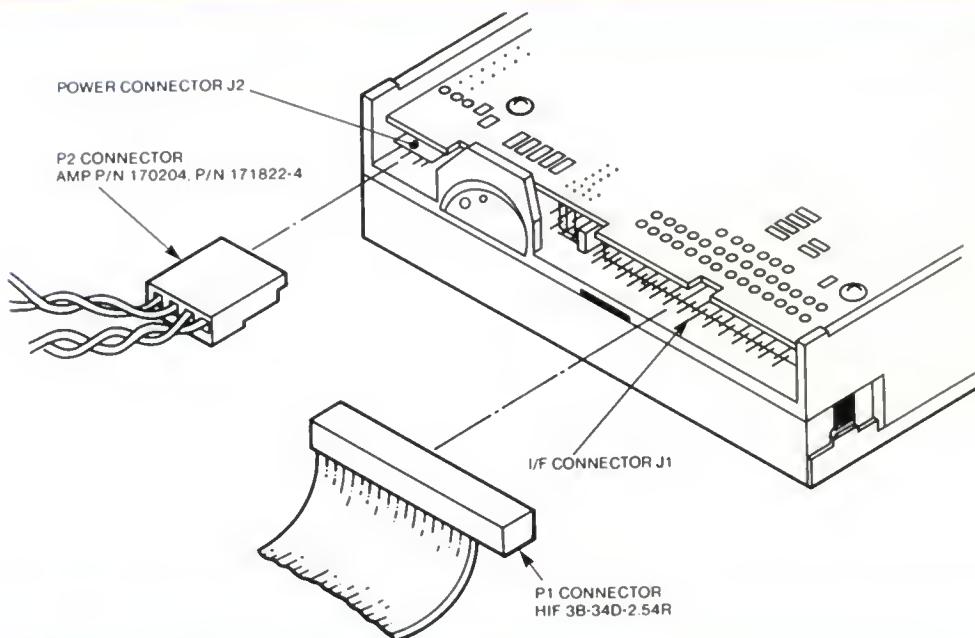
DC POWER PROFILE

DC POWER PROFILE

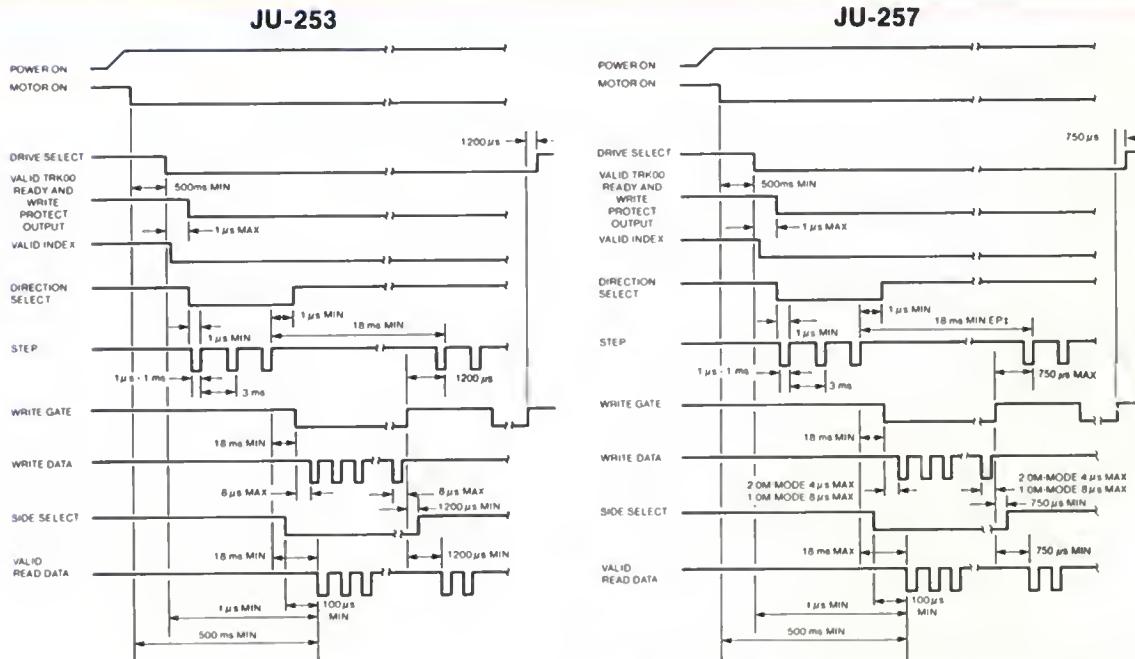
Interface Signal Driver/Receiver



Physical Interface



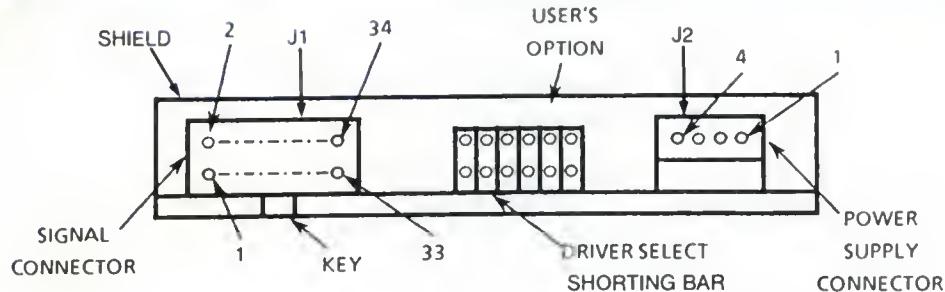
Timing Requirements



‡ The delay from the step to read, write or direction change is 18ms minimum in normal mode.

Pin Assignments

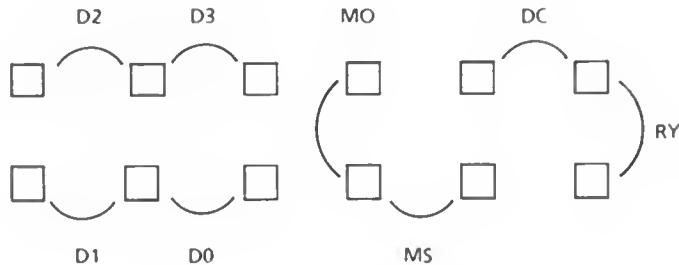
Rear View



J2 CONNECTOR PIN	
1	+5 VDC
2	+5 RETURN
3	+12 RETURN
4	+12 VDC

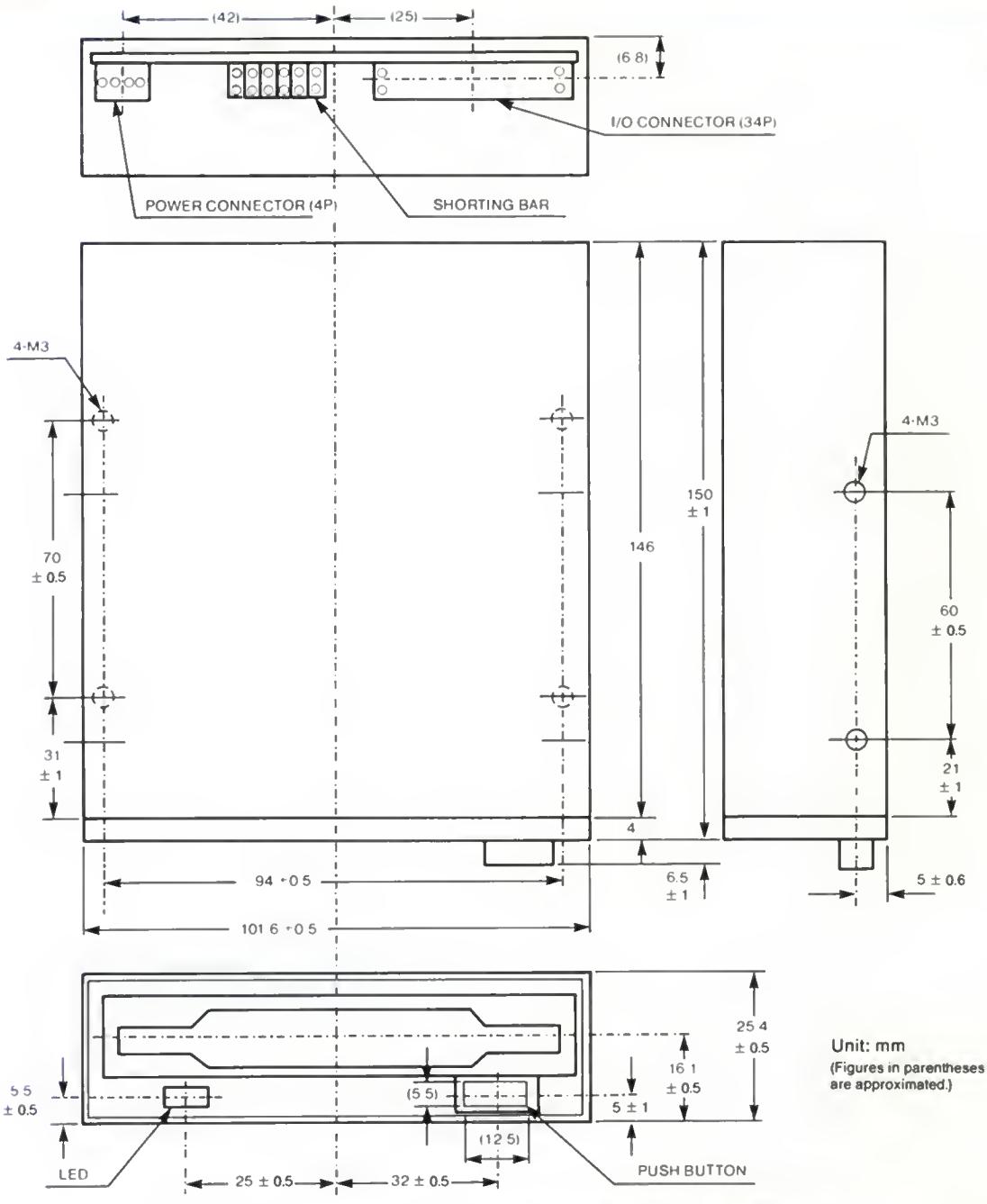
J1/J2 CONNECTOR

Shorting Plug Options



Jumper Designation	Description	Shipped from Factory
D0	DRIVE SELECT 0 input line	Open
D1	DRIVE SELECT 1 input line	Plugged
D2	DRIVE SELECT 2 input line	Open
D3	DRIVE SELECT 3 input line	Open
MO	SPINDLE MOTOR is ON and OFF with MOTOR ON SIGNAL	Plugged
MS	SPINDLE MOTOR is ON and OFF with DRIVE SELECT SIGNAL	Open
DC	Pin #34 is DISK CHANGE SIGNAL	Plugged
RY	Pin #34 is READY SIGNAL	Open
TM	TM provides termination of 1KΩ on all input lines. "DRIVE SELECT" is always terminated through a 1KΩ pull up resistor regardless of TM.	Plugged

Mechanical Dimensions



NOTE: 1) 32mm high bezels available.
2) 5.25" mounting kit with bezel and adapter kit is also available.

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